n8n Advanced - AI Agents & Automations with n8n

Design and deploy autonomous AI agents to collaborate, decide and interact with your data

Design and deploy autonomous AI agents capable of collaborating, deciding and interacting with your data - without coding. After this 2-day training, you will walk away with: An autonomous AI agent capable of responding, searching, analyzing and producing - without human intervention. A mini-team of orchestrated agents sharing tasks (collection, analysis, writing, validation). Operational sub-workflows connected to your real data sources. A clear logic to industrialize your future AI scenarios. This is not theory - you build live. This training is developed and delivered in collaboration with the Sola Agency. Number of seats limited to 8 people.



EDUCATIONAL OBJECTIVES

At the end of this 2-day training, you will be able to:

- Understand and configure AI nodes of n8n — prompts, temperature, memory, quotas — for different LLMs (OpenAI, Claude, Gemini, Mistral...).
- Design and deploy an autonomous AI agent capable of processing data or responding to requests without human intervention.
- Design and implement sub-workflows to structure complex automations.
- Add and configure Tools (HTTP requests, databases, NocoDB, SERPAPI...) to extend the capabilities of your agents.
- Orchestrate a team of collaborative AI agents with role distribution and decision-making logic.

TRAINING OBJECTIVES AND CONTENT

A 2-day training divided into 5 modules.

Hours: from 9am to 5pm

M1

Generative AI & n8n: Advanced Framing
→ Recall of generative AI & n8n fundamentals
→ Concrete use cases of AI agents in business processes
→ Panorama of intelligent automation architectures

M2

AI Nodes & LLM settings in n8n
→ Overview of AI nodes and connectors: OpenAI, Claude, Gemini, Mistral...
→ Key settings: prompts, temperature, memory, token limits
→ Hallucination reduction strategies

M3

Design an autonomous AI agent in n8n
→ Agent architecture: context, storage, information retrieval
→ Deployment of an AI agent capable of responding or acting without human intervention
→ Testing, debugging and optimizing the agent

M4

Build a team of AI agents
→ Role distribution: data collection, analysis, writing, validation
→ Collaboration between agents via n8n (sequencing and orchestration)
→ Error and exception management in a multi-agent system

M5

Sub-workflows & advanced tools (Tools)
→ Creation of sub-workflows to structure complex automations
→ Connection to external sources: HTTP requests, databases, NocoDB, SERPAPI...
→ Final workflow combining AI agent(s) + sub-workflows + business tools

TARGET AUDIENCE

THIS TRAINING IS FOR YOU

✔ Entrepreneurs, consultants, Ops / Marketing / HR / Admin
✔ Managers or project leaders wishing to streamline their processes
✔ Freelancers and SMEs without a technical team
✔ Anyone who has already followed the n8n initiation module or who understands the basics (nodes, variables, triggers)

THIS TRAINING IS NOT FOR YOU

✖ People who have never used n8n
✖ Those who are only looking for theory without practical application
✖ Developers looking for a purely technical approach
✖ Those who only want to do simple automations (see initiation module)

⚠ PREREQUISITES

Essential prerequisite: Having followed the n8n initiation module or mastering the basics (nodes, variables, triggers). This training naturally follows the beginner's module. Each participant must come equipped with: A laptop with an up-to-date browser (Google Chrome recommended) A fake Google account activated on console.cloud.google.com A ChatGPT / OpenAI API key (minimum 10 €) — separate from the ChatGPT subscription A Claude Anthropic API key (minimum 10 €) — separate from the Claude subscription A Google Gemini API key (minimum 10 €) — separate from the Gemini subscription These API keys are separate from standard tool subscriptions. They allow for consumption use and are necessary for practical exercises. Pedagogical method Format & immersion → 100% practical: you build live from the first hours → Small group (max. 8 people) for individualized support → Trainer present at each step - no one is left behind → Catering offered to promote exchanges between participants Pedagogical approach → Progressive guided workshops: from the simple agent to the team of agents → Practical cases from real professional situations → Light algorithmic reasoning - never pure development → Each module leads to a concrete deliverable that can be used immediately